

**Following tables excerpted from the June 2009 DRAFT  
Potential Montana PM2.5 Non-Attainment Areas - Montana Department of Environmental  
Quality**

**Table 1. Current & Former Particulate Matter NAAQS (units are  $\mu\text{g}/\text{m}^3$ )**

FORM	TSP (1971)	PM10 (1987)	PM10 (2006)	PM2.5 (1997)	PM2.5 (2006)
24-Hour	260	150 <sup>a</sup>	150 <sup>a</sup>	65 <sup>c</sup>	35 <sup>c</sup>
Annual	75	50 <sup>b</sup>	revoked	15 <sup>d</sup>	15 <sup>d</sup>

<sup>a</sup> Expected 24-hr average exceedance from statistical calculations based on 3 years of data

<sup>b</sup> Annual mean from statistical calculations based on 3 years of data

<sup>c</sup> 3-year average of the 98<sup>th</sup> percentile values

<sup>d</sup> 3-year average of the spatially averaged means

**Table 2. PM2.5 Daily Data & Potential Non-Attainment Areas**

(24-hr values are 98<sup>th</sup> percentile; units are  $\mu\text{g}/\text{m}^3$ )

Location	2004 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	Avg <sup>2</sup>	2007 <sup>1</sup>	Avg <sup>2</sup>
Belgrade	25.2	36.3	25.7	29.1	28.1*	30.0
Billings	19.4	31.0	17.6	22.7	19.9*	22.8
Bozeman <sup>6,9</sup>	nd	14.4	28.6	--	23.2*	22.1
Butte	29.6	35.9	39.1	34.9	26.0	33.7
Great Falls	12.2	17.6	15.2	15.0	22.4*	18.4
Hamilton <sup>5</sup>	44.7	40.7	27.8	37.7	27.8	32.1
Helena	32.9	38.1	24.7	31.9	25.8*	29.5
Kalispell	24.6	17.5	22.8	21.6	20.7*	20.3
Libby	37.7	51.1	40.5	43.1	32.2	41.3
Missoula	46.8	42.5	30.2	39.8	32.8*	35.2
Seeley Lake	22.6 <sup>8</sup>	25.1 <sup>8</sup>	38.3 <sup>8</sup>	28.7 <sup>8</sup>	29.5 <sup>8</sup>	31.0 <sup>8</sup>
Thompson Falls	18.3	15.1	25.5	19.6	18.4	19.7
Whitefish	23.3	22.0	26.2	23.8	22.2	23.5
W.Yellow. – Alley <sup>7</sup>	nd	nd	nd	nd	30.0	--
YNP–W. Entrance	17.6	8.4	10.6	12.2	16.8*	11.9
Columbia Falls	nd	nd	nd	--	nd	--

nd = no monitoring data

\* = wildfire smoke affected data

<sup>1</sup> Excludes data  $\geq 35 \mu\text{g}/\text{m}^3$  flagged & concurred by EPA as ‘exceptional event’, e.g. wildfire smoke

<sup>2</sup> Averages based on the 3-yr periods of 2004-2006, 2005-2007, 2006-2008.

<sup>3</sup> May include flagged data either  $\geq 35 \mu\text{g}/\text{m}^3$  or contributing to a violation & likely to be concurred by EPA as ‘exceptional event’ (wildfires)

<sup>4</sup> Includes data potentially  $\geq 35 \mu\text{g}/\text{m}^3$  and lower values that were flagged as exceptional events due to wildfire smoke. Final results may change depending on EPA review of Montana’s data.

<sup>5</sup> Monitor moved in 2005 and the 2005 data from both sites was combined for an estimated 98<sup>th</sup> percentile value in 2005.

<sup>6</sup> New site with very few samples collected in 2005; not enough data for valid 3-yr average.

<sup>7</sup> FRM sampling started at this site in 2007; FRM switched to FEM in 2008, thus incomplete dataset.

<sup>8</sup> Failed 75% data recovery requirement.

<sup>9</sup> Bozeman WWTP site removed in fall 2008; data record incomplete.

**Red** = demonstrated noncompliance with the 24-hour standard of  $35 \mu\text{g}/\text{m}^3$ .

**Orange** = potential for noncompliance, criteria is 85% of the NAAQS

**Yellow** = At-Risk area, criteria is 85% of the NAAQS